

...FEBRUARY 2011 REGIONAL CLIMATE SUMMARY...

...WARM AND DRY...THEN COLD AND WET...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...
THE WEATHER PATTERN THAT PRODUCED WARM AND DRY CONDITIONS FOR MOST
OF JANUARY CONTINUED INTO THE FIRST HALF OF FEBRUARY. A SIGNIFICANT
CHANGE IN THE WEATHER PATTERN THEN OCCURRED AROUND VALENTINES
DAY...RESULTING IN MUCH COOLER AND WETTER CONDITIONS DURING THE
SECOND HALF OF FEBRUARY AS A SERIES OF COLD WEATHER SYSTEMS MOVED IN
FROM THE NORTH AND NORTHWEST.

THE WARMTH DURING THE FIRST HALF OF FEBRUARY PEAKED ON THE FIRST
WEEKEND OF THE MONTH...FEBRUARY 5 AND 6. A STRONG RIDGE OF HIGH
PRESSURE ALOFT...CENTERED JUST OFF THE WEST...PRODUCED AN
UNSEASONABLY WARM AIRMASS OVER THE REGION. AT THE SAME TIME...A
SURFACE HIGH OVER OREGON AND NORTHERN CALIFORNIA GENERATED DRY
OFFSHORE FLOW. THE RESULT WERE 24 DAILY HIGH TEMPERATURE RECORDS ON
THE 5TH AND 6TH ACROSS THE SAN FRANCISCO AND MONTEREY BAY AREAS.
TEMPERATURES ON THAT SATURDAY NIGHT WERE UNUSUALLY WARM...AS A
COMBINATION OF AN UNSEASONABLY WARM AIRMASS AND PERSISTENT NORTHERLY
WINDS HELD TEMPERATURES UP OVERNIGHT...ESPECIALLY IN THE SAN
FRANCISCO BAY AREA. LOW TEMPERATURES IN THE BAY AREA THAT NIGHT WERE
MOSTLY IN THE 50S...WITH TEMPERATURES IN A FEW LOCATIONS ONLY
DROPPING IN THE LOWER 60S. SAN FRANCISCO'S LOW TEMPERATURE ON SUNDAY
THE 6TH WAS 60 DEGREES WHICH BROKE THE RECORD FOR WARMEST MINIMUM
TEMPERATURE ON THE 6TH AND ALSO CAME WITHIN ONE DEGREE OF THE WARMEST
MINIMUM TEMPERATURE FOR THE ENTIRE MONTH OF FEBRUARY.

BY FEBRUARY 14 THE PERSISTENT UPPER RIDGE ALONG THE WEST COAST HAD
FINALLY WEAKENED AND MOVED EAST. MEANWHILE...A COLD UPPER TROUGH IN
THE GULF OF ALASKA BEGAN TO DIG SOUTH ALONG THE WEST COAST OF NORTH
AMERICA. TEMPERATURES COOLED CONSIDERABLY OVER THE NEXT FEW DAYS...
DROPPING BELOW NORMAL IN ALL AREAS BY THE 16TH AND THEN REMAINING
BELOW NORMAL FOR THE REMAINDER OF THE MONTH. AS THE TROUGH DEEPENED
ALONG THE WEST COAST...A SERIES OF COOL WEATHER SYSTEMS PRODUCED SIX
CONSECUTIVE DAYS OF RAIN IN OUR AREA. RAIN TOTALS IN THE SAN
FRANCISCO BAY AREA AND MONTEREY BAY AREA FROM MONDAY FEBRUARY 14
THROUGH SATURDAY FEBRUARY 19 ARE LISTED BELOW:

LOCATION	RAIN TOTAL (MON-SAT)
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...NORTH BAY...

KENTFIELD	5.44
MOUNT SAINT HELENA	5.68
NAPA	3.06
POINT REYES STATION	5.31
SAN RAFAEL	5.43
SANTA ROSA	4.35
SONOMA COUNTY AIRPORT	5.01
VENADO	6.88

...SAN FRANCISCO PENINSULA...

HALF MOON BAY	3.02
REDWOOD CITY	3.32
SAN FRANCISCO	3.91
SAN FRANCISCO AIRPORT	3.82
SPRING VALLEY RAWS	5.66

...EAST BAY...

CONCORD	3.11
HAYWARD AIRPORT	2.20
LIVERMORE AIRPORT	1.88
OAKLAND	3.92
OAKLAND NORTH RAWS	4.76

...SOUTH BAY...SANTA CLARA VALLEY...
AND SANTA CRUZ MOUNTAINS...

BEN LOMOND	6.98
GILROY	2.20
HENRY COE STATE PARK	3.26
LEXINGTON RESERVOIR	5.78
LOMA PRIETA	3.90
MOFFETT FIELD	2.17
MOUNT UMUNHUM	6.70
SAN JOSE AIRPORT	2.43
UVAS CANYON PARK	7.66

...MONTEREY BAY AND BIG SUR COAST...

ANDREW MOLERA SP	4.30
BIG SUR STATION	6.08
MONTEREY NWS	3.12
SANTA CRUZ	4.14

...INTERIOR MONTEREY COUNTY/SAN BENITO COUNTY...

CARMEL VALLEY	3.38
FREMONT PEAK	3.54
HOLLISTER	2.48
KING CITY	1.98
PINNACLES NATL MONUMENT	2.65
SALINAS	2.68

...SANTA LUCIA MOUNTAINS...

ANDERSON PEAK	7.32
CHALK PEAK	10.39
FORT HUNTER LIGGETT	5.50
MINING RIDGE	5.75
PALO COLORADO	4.06
THREE PEAKS	11.80

BY THE SECOND WEEK OF FEBRUARY...AFTER SIX WEEKS OF DRY WEATHER DURING JANUARY AND EARLY FEBRUARY...YEAR-TO-DATE RAINFALL TOTALS HAD FALLEN BELOW NORMAL ACROSS THE ENTIRE REGION. WET WEATHER FROM THE 14TH THROUGH THE 19TH PUSHED YEAR-TO-DATE RAINFALL TOTALS BACK TO ABOUT NORMAL IN MOST LOCATIONS...AND EVEN A LITTLE ABOVE NORMAL IN SOME.

YEAR TO DATE RAINFALL TOTALS

	JUL 01- FEB 13	PON	JUL 01- FEB 19	PON
MOFFETT FIELD	6.48	75	8.65	94
OAKLAND AIRPORT	11.03	95	13.83	113
SALINAS AIRPORT	7.44	93	9.76	115
SAN FRANCISCO	13.22	89	17.13	109
SAN FRANCISCO AIRPORT	10.20	78	14.02	100
SAN JOSE	6.03	65	8.47	86
SONOMA COUNTY AIRPORT	20.72	96	25.76	112

BECAUSE THE STORM SYSTEMS DURING THE THIRD WEEK OF FEBRUARY WERE QUITE COLD...CONSIDERABLE SNOW FELL AT HIGHER ELEVATIONS... PARTICULARLY AT ELEVATIONS ABOVE 3000 FEET. ON THE EVENING OF FRIDAY THE 18TH...SNOW FELL AS LOW AS 1700 FEET IN THE EAST BAY HILLS AND AN INCH OF SNOW WAS REPORTED ON GRIZZLY PEAK IN THE BERKELEY HILLS. MOUNT TAMALPAIS WAS SNOW COVERED FROM THE 19TH THROUGH THE 21ST. FOUR TO FIVE INCHES OF SNOW WAS REPORTED AT 3000 FEET IN THE SANTA CRUZ MOUNTAINS ON THE 19TH AND 2 INCHES OF SNOW WAS REPORTED AT 2500 FEET IN THE HILLS ABOVE CARMEL VALLEY ON THAT SAME DAY. 18 INCHES OF SNOW COVERED THE SUMMIT OF MOUNT DIABLO BY THE 20TH. LICK OBSERVATORY ATOP MOUNT HAMILTON REPORTED 6 INCHES OF SNOWFALL ON THE 17TH...ANOTHER 6 INCHES ON THE 18TH...AND A TOTAL OF 15 INCHES OF SNOW ON THE GROUND BY THE 19TH. ON THE EVENING OF THE 20TH...THERE WAS A REPORT OF TWO FEET OF SNOW AT THE TOP OF CHEWS RIDGE (5000 FEET) IN MONTEREY COUNTY.

DRY WEATHER RETURNED FOR A FEW DAYS FROM THE 20TH THROUGH THE 23RD... BUT TEMPERATURES REMAINED BELOW NORMAL. A VERY COLD WEATHER SYSTEM DROPPED OUT OF WESTERN CANADA AND INTO CALIFORNIA ON THE 24TH AND 25TH. A STRONG COLD FRONT MOVED FROM NORTH TO SOUTH THROUGH THE REGION FROM LATE ON THURSDAY NIGHT FEBRUARY 24 THROUGH THE MORNING OF FRIDAY THE 25TH. THE COLD FRONT PRODUCED A PERIOD OF VERY HEAVY RAIN...STRONG GUSTY WINDS...AND SMALL HAIL. THE FRONT SLOWED AS IT MOVED THROUGH THE SOUTHERN PART OF THE SAN FRANCISCO BAY AREA. UP TO 3 INCHES OF RAIN FELL IN THE SANTA CRUZ MOUNTAINS FROM LATE THURSDAY NIGHT THROUGH FRIDAY MORNING...RESULTING IN MINOR FLOODING AND MUDSLIDES. MOST PRECIPITATION WITH THIS STORM ENDED BEFORE THE COLDEST AIRMASS ARRIVED LATE ON THE 25TH AND 26TH. HOWEVER... JUST ENOUGH MOISTURE REMAINED TO PRODUCE SCATTERED LIGHT SNOW DOWN TO NEAR SEA LEVEL ON FRIDAY NIGHT FEBRUARY 25. MOST SNOWFALL DID NOT ACCUMULATE OR WAS NOT MEASURABLE. A BRIEF PERIOD OF LIGHT SNOW FELL IN THE CITY OF SAN FRANCISCO THAT NIGHT. ONLY A TRACE AMOUNT OF SNOW FELL IN SAN FRANCISCO AND SO 1976 IS STILL THE LAST TIME MEASURABLE

SNOW WAS RECORDED IN THE CITY. SHOWERS CONTINUED ON SATURDAY THE 26TH...MAINLY ACROSS THE SOUTHERN PART OF THE AREA. THESE SHOWERS PRODUCED SMALL HAIL AND ALSO SNOW AT VERY LOW ELEVATIONS. SNOW SHOWERS OCCURRED IN MANY LOCATIONS NEAR SEA LEVEL ON THE 26TH INCLUDING GILROY...SALINAS...PRUNEDALE AND CARMEL.

THE VERY COLD AIRMASS WITH THIS STORM PRODUCED 10 DAILY RECORD LOW TEMPERATURES ACROSS THE REGION ON THE 26TH AND 27TH. FREEZING OR SUBFREEZING TEMPERATURES WERE COMMON IN THE VALLEYS AND FROST OCCURRED NEAR THE COAST.

FOR THE MONTH AS A WHOLE TEMPERATURES WERE BELOW NORMAL...WITH COLD CONDITIONS DURING THE SECOND HALF OF THE MONTH MORE THAN OFFSETTING THE WARMTH FROM THE FIRST HALF. SIMILARLY...WET CONDITIONS DURING THE SECOND HALF OF THE MONTH OFFSET DRY CONDITIONS DURING THE FIRST. RAINFALL TOTALS FOR THE MONTH WERE MOSTLY A LITTLE ABOVE NORMAL... EXCEPT IN THE NORTH BAY AND PORTIONS OF THE EAST BAY WHERE MONTHLY PRECIPITATION TOTALS ENDED UP A LITTLE BELOW NORMAL. YEAR-TO-DATE RAINFALL TOTALS AS OF FEBRUARY 28 WERE FROM 85 TO 90 PERCENT OF NORMAL IN THE SOUTH BAY AND FROM 100 TO 110 PERCENT OF NORMAL ELSEWHERE.

...FEBRUARY REGIONAL TEMPERATURE SUMMARY...

LOCATION	DEPARTURE			DEPARTURE		
	AVG HIGH	NORMAL HIGH	FROM NORMAL	AVG LOW	NORMAL LOW	FROM NORMAL

NORTH BAY...

KENTFIELD	58.6	61.4	-2.8	39.4	42.9	-3.5
NAPA	60.3	62.7	-2.4	38.5	41.9	-3.4
PETALUMA	59.0	62.0	-3.0	35.5	40.7	-5.2
SAINT HELENA	55.4	61.6	-6.2	38.9	39.8	-0.9
SAN RAFAEL	58.1	61.1	-3.0	39.5	43.8	-4.3
SANTA ROSA	61.8	62.0	-0.2	34.1	41.5	-7.4

SAN FRANCISCO PENINSULA...

HALF MOON BAY	59.6	59.7	-0.1	38.9	44.2	-5.3
REDWOOD CITY	60.4	62.3	-1.9	38.7	42.4	-3.7
SAN FRANCISCO AIRPORT	58.2	59.5	-1.3	43.0	45.5	-2.5
SAN FRANCISCO DOWNTOWN	58.2	60.9	-2.7	45.7	48.5	-2.8

EAST BAY...

BERKELEY	60.3	59.4	0.9	41.4	46.4	-5.0
CONCORD	60.5	61.6	-1.1	39.5	44.2	-4.7
FREMONT	60.1	61.5	-1.4	40.5	44.3	-3.8
LIVERMORE	59.9	61.9	-2.0	37.6	40.3	-2.7
MARTINEZ	59.6	61.0	-1.4	33.8	42.0	-8.2

MOUNT DIABLO						
JUNCTION	53.2	57.2	-4.0	39.0	40.4	-1.4
NEWARK	59.9	61.0	-1.1	42.5	45.1	-2.6
OAKLAND	60.9	61.6	-0.7	43.2	47.9	-4.7

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	62.1	63.7	-1.6	34.9	39.1	-4.2
SAN JOSE	60.5	62.3	-1.8	40.5	44.6	-4.1

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	60.2	64.2	-4.0	36.8	40.2	-3.4
HOLLISTER	60.0	63.1	-3.1	36.3	40.8	-4.5
KING CITY	62.9	65.8	-2.9	36.8	38.9	-2.1
SALINAS	62.5	64.2	-1.7	37.6	43.3	-5.7

...FEBRUARY REGIONAL PRECIPITATION SUMMARY...

LOCATION	FEB TOTAL	AVERAGE FEB PRECIP	PERCENT OF NORMAL
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NORTH BAY...

CALISTOGA	7.76	7.84	99
KENTFIELD	7.31	9.10	80
NAPA	4.27	5.03	85
PETALUMA	3.89	5.27	74
SAINT HELENA	7.14	7.21	99
SAN RAFAEL	6.63	7.41	89
SANTA ROSA	5.71	5.84	98

SAN FRANCISCO PENINSULA...

HALF MOON BAY	4.01	4.91	82
REDWOOD CITY	4.36	3.88	112
SAN FRANCISCO AIRPORT	4.79	4.01	119
SAN FRANCISCO DOWNTOWN	4.94	4.00	124

EAST BAY...

BERKELEY	6.30	4.86	130
CONCORD	4.02	4.11	98
FREMONT	2.13	3.61	59
LIVERMORE	2.69	2.73	99
MARTINEZ	4.63	3.80	122
MOUNT DIABLO JUNCTION	4.82	4.49	107
NEWARK	2.49	2.89	86
OAKLAND	4.73	4.45	106

RICHMOND	5.13	4.47	115
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SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	11.39	9.71	117
SAN JOSE	3.15	2.84	111

MONTEREY AND SAN BENITO COUNTIES...

CARMEL VALLEY	4.22	2.94	144
HOLLISTER	2.88	2.98	97
KING CITY	3.77	2.64	143
SALINAS	3.43	2.92	117

...DAILY TEMPERATURE RECORDS FOR FEBRUARY 2010...

DATE	LOCATION	RECORD MAXIMUM TEMP	PREVIOUS RECORD
2/05	KENTFIELD	78	75 IN 2001
2/05	MOFFETT FIELD	76	71 IN 1987
2/05	NAPA	79	72 IN 1906
2/05	OAKLAND	77	67 IN 2007
2/05	OAKLAND AIRPORT	74	69 IN 1959
2/05	RICHMOND	76	70 IN 2001
2/05	SAN FRANCISCO AIRPORT	73	71 IN 2001
2/05	SAN FRANCISCO DOWNTOWN	73	71 IN 1917
2/05	SAN JOSE	75	71 IN 1996
2/05	SAN RAFAEL	79	69 IN 1963
2/05	SANTA ROSA	80	71 IN 2001
2/05	SALINAS	77	76 IN 1987
2/05	SANTA CRUZ	76	74 IN 1987
2/06	KENTFIELD	79	72 IN 1987
2/06	GILROY	76	73 IN 2001
2/06	MOFFETT FIELD	77	74 IN 1987

2/06	NAPA	80	75 IN 1963
2/06	OAKLAND	81	68 IN 1980
2/06	OAKLAND AIRPORT	81	71 IN 1963
2/06	SAN FRANCISCO AIRPORT	72	66 IN 1987
2/06	SAN FRANCISCO DOWNTOWN	77	73 IN 1987
2/06	SAN JOSE	77	73 IN 1987
2/06	SAN RAFAEL	79	73 IN 1963
2/06	SANTA ROSA	83	79 IN 1912
2/12	LIVERMORE	74	73 IN 1996

DATE	LOCATION	RECORD WARM MINIMUM TEMP	PREVIOUS RECORD
2/6	SAN FRANCISCO DOWNTOWN	60	58 IN 1963

DATE	LOCATION	RECORD MINIMUM TEMP	PREVIOUS RECORD
2/20	SAN FRANCISCO AIRPORT	37	37 IN 1976
2/26	NAPA	28	30 IN 1945
2/26	OAKLAND	34	38 IN 1987
2/26	OAKLAND AIRPORT	32	34 IN 1962
2/26	SAN FRANCISCO AIRPORT	35	36 IN 1971
2/26	SAN RAFAEL	28	32 IN 1996
2/26	SAN FRANCISCO DOWNTOWN	37	37 IN 1962
2/26	MOFFETT FIELD	34	34 IN 1962
2/26	SAN JOSE	33	33 IN 1897
2/27	NAPA	28	29 IN 1942
2/27	OAKLAND	36	39 IN 2007

RECORD LOW MAXIMUM	PREVIOUS
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DATE	LOCATION	TEMP	RECORD
2/19	SAN FRANCISCO DOWNTOWN	44	47 IN 1890

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE....58.2....46TH COOLEST OUT OF 136 YEARS
 AVERAGE LOW TEMPERATURE.....45.7....30TH COOLEST OUT OF 136 YEARS
 PRECIPITATION.....4.94 INCHES....46TH WETTEST OUT OF 161 YEARS

...MONTHLY EXTREMES FOR SELECT LOCATIONS...

LOCATION	WARMEST DAY(S)	COOLEST DAY(S)	WETTEST DAY(S)
SANTA ROSA	2/06 83 DEG	2/26 24 DEG	2/17 1.54 IN
SAN FRANCISCO	2/06 77 DEG	2/26 37 DEG	2/19 1.05 IN
SAN JOSE	2/06 77 DEG	2/27 32 DEG	2/17 0.97 IN
SALINAS AP	2/06 78 DEG	2/27 31 DEG	2/17 0.87 IN

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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